



# Virtual Microscopy Solutions

Leica Microsystems' Complete Virtual Microscopy Product Range

Living up to Life

**Leica**  
MICROSYSTEMS

# Of Course We Scan



## Leica SCN400

The fast, reliable, and flexible way to scan and digitize your slides

- **High resolution** – high-quality, high-contrast images with specially designed optics
- **Always in focus** – patented Dynamic Focus Tracking reveals greater specimen detail
- **Reliable, precise scans** – Minimize the risk of failed scans
- Unprecedented **rapid scanning** speed

## Leica SL801

The fast, reliable, and flexible way to handle large volumes of slides

- **Automatically scan up to 384 slides** without manual interaction
- **Easy upgrade** – Leica SCN400 can be retrofitted with Leica SL801 at the user's facility
- **Flexibility** – use automatic scanning with user-defined settings or fully interactive mode for complete control
- **Convenience** – load slides as needed, even during the scanning process



## Ariol Platform

Unmatched flexibility in microscope-based slide scanning with the Ariol system

- **Highest quality** brightfield and fluorescent slide scanning
- **Flexible** hardware configuration with user selected objectives and filters
- **Diagnostic image quality** with advanced optional analysis capabilities
- **Professional** integrated reports with gold standard scoring protocols



# Scanning is Just the Beginning

## Manage

Use SlidePath's Digital Image Hub for flexible online access

- **User defined image associated data** for intuitive archiving, search and retrieval
- **Centralized multi-format image library** including digital slides, DICOM and standard image formats
- **Easy to use folder structure** for efficient image management
- **Communication protocols** for seamless integration with third party systems
- **Flexible storage architecture** ensures system scalability and future proofing



## Increase Efficiency

Intuitive software workflows reduce time and cost & increase quality

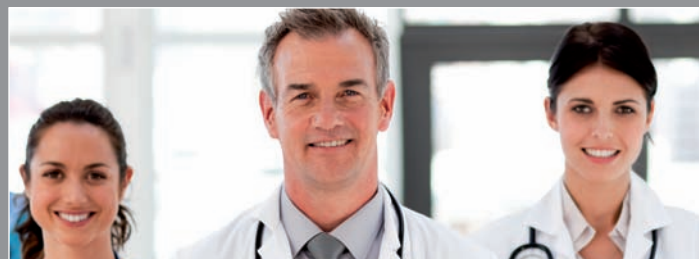
- **Rapidly review image** cohorts with multi-parametric searching and high throughput review
- **User-defined glossaries and dictionaries** standardize nomenclature resulting in accurate data mining and analysis
- **Use OpTMA for automatic core identification and rapid core review** to increase TMA throughput and reduce risk of error
- **Navigate images, record data and create annotations** within the slide viewer



## Share Information

Rapid access to slides and

- **Support multi-users** access to the image library
- **Reduce time** taken for remote slide reading
- **Conferencing tool** provides a collaborative environment for rapid review
- **Review multiple images** simultaneously for improved viewing and improved diagnosis
- **Online solution** requires no local installation

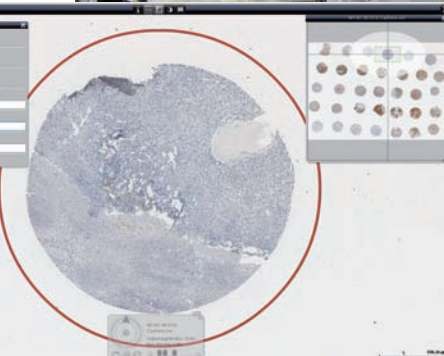
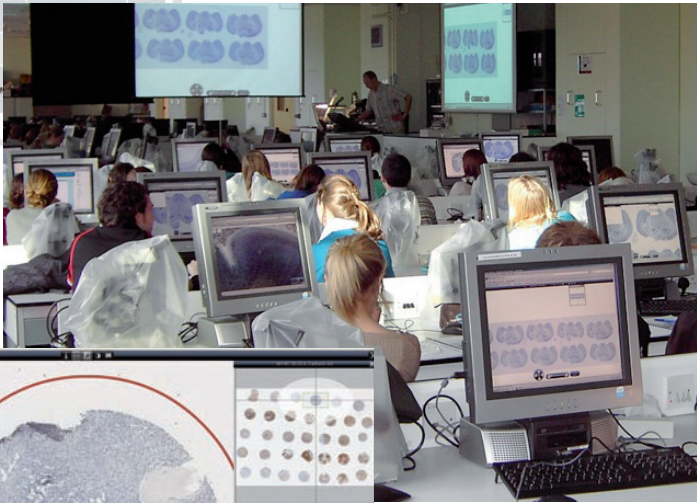


Type	Date Added	Info
folder		<a href="#">i</a>
folder		<a href="#">i</a>
folder		<a href="#">i</a>
folder		<a href="#">i</a>
folder		<a href="#">i</a>
LeicaDC		

## Data Security

Ensure safety, control, and compliance of your complete image management system

- **Multi-level user control** ensures correct access rights to defined image and data collections
- **Unique user names and encrypted passwords** required for system access
- **Comprehensive audit trails** and controls for 21 CFR part 11
- **Secure system** architecture and backup capabilities



## ation

anytime, anywhere without a microscope  
**collaboration** through a single online

or peer review and consultation with

simulates a multi-head microscope  
 and simultaneous slide review

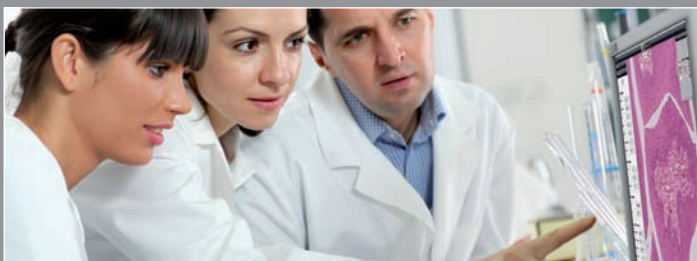
**images** in a single window for side-by-side  
 and slide comparison

requires no software installation (PC or Mac)

## e-Learning

Modernize slide-based learning with cutting edge technology

- **Reduce costs and increase class size** with SlidePath's Digital SlideBox
- **Maximize teaching efficiency** and standardize course material – same digital slide instead of similar glass slides
- **Integrate rare cases** and expose students to cases they would not see with fragile glass slides
- Students have **24/7 access** to course material
- **Easy integration** of course content, slides, and questionnaires in a single online system
- **Improve quality assurance** and continuing professional development schemes with standardized content and no shipping time or costs

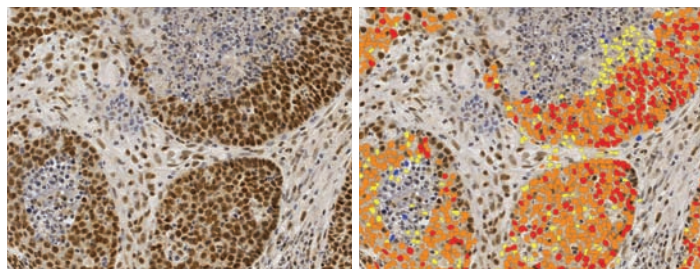


# The Image is Not the End

## Flexible Image Analysis for Your Research Laboratory

SlidePath's Tissue IA provides high-throughput, web-enabled analysis for digital slides

- Web-deployed software enables **control and review of image analysis** from anywhere
- Flexible solution for **whole slide**, region of interest or **TMA** analysis
- Standard **algorithms** (membrane, nuclear, and positive pixel) can be adapted **for multiple biomarker** and tissue types
- Grid computing approach enables **whole slide analysis**
- Scalable solution to **increase processing power** and decrease analysis time



Original and final image after processing with SlidePath's Tissue IA. Nuclear staining on selected inclusion regions have been classified as strongly positive (red), moderately positive (orange), weakly positive (yellow) and negative based on input parameters.

## Quantify Biomarkers for Clinical Diagnostics

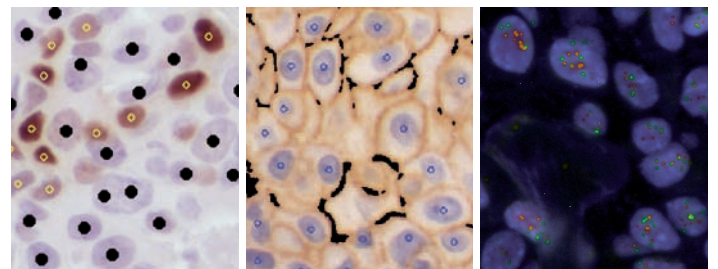
The Ariol platform couples high quality imaging with advanced intelligent analysis

### Clinical Her2/neu brightfield IHC, ER, PR in breast cancer analysis

- **Gold-standard scoring protocols** fully supported (Allred scoring, HistoScoring)
- Unique **region-of-interest analysis** readily integrates into existing pathology workflows
- Produce case reports with **easy export** into information management systems

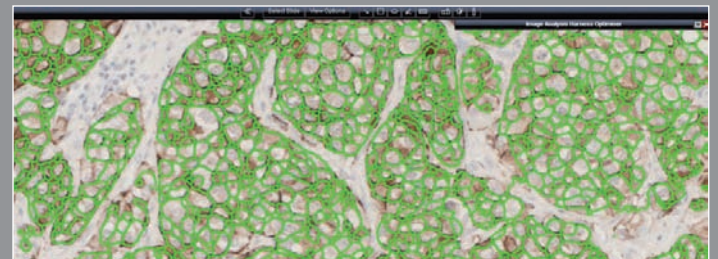
### Clinical Her2/neu FISH analysis

- **Capture total gene signal** through full z-stack ensures that all information is analyzed
- **Automatic signal counting** expressed in an easy to read per-nucleus table
- Bring fluorescence analysis out of the dark room and **increase speed of review**
- Archive digital images for **permanent non-fade records**



Nuclear (ER & PR), Membrane (Her2/neu), and FISH (Her2 FISH) capture and analysis (from top to bottom).

SlidePath applications are not cleared by the FDA, Health Canada or in the EU for diagnostic or clinical use. All applications are intended solely for use in the research or educational setting, such as university or pharmaceutical development. These applications are described as Research Applications or Research Use Only.



# “With the user, for the user”

## Leica Microsystems

Leica Microsystems operates globally in four divisions, where we rank with the market leaders.

### • Life Science Division

The Leica Microsystems Life Science Division supports the imaging needs of the scientific community with advanced innovation and technical expertise for the visualization, measurement, and analysis of microstructures. Our strong focus on understanding scientific applications puts Leica Microsystems' customers at the leading edge of science.

### • Industry Division

The Leica Microsystems Industry Division's focus is to support customers' pursuit of the highest quality end result. Leica Microsystems provide the best and most innovative imaging systems to see, measure, and analyze the microstructures in routine and research industrial applications, materials science, quality control, forensic science investigation, and educational applications.

### • Biosystems Division

The Leica Microsystems Biosystems Division brings histopathology labs and researchers the highest-quality, most comprehensive product range. From patient to pathologist, the range includes the ideal product for each histology step and high-productivity workflow solutions for the entire lab. With complete histology systems featuring innovative automation and Novocastra™ reagents, Leica Microsystems creates better patient care through rapid turnaround, diagnostic confidence, and close customer collaboration.

### • Medical Division

The Leica Microsystems Medical Division's focus is to partner with and support surgeons and their care of patients with the highest-quality, most innovative surgical microscope technology today and into the future.

The statement by Ernst Leitz in 1907, “with the user, for the user,” describes the fruitful collaboration with end users and driving force of innovation at Leica Microsystems. We have developed five brand values to live up to this tradition: Pioneering, High-end Quality, Team Spirit, Dedication to Science, and Continuous Improvement. For us, living up to these values means: **Living up to Life.**

### Active worldwide

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